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QUERY CONTROL FORM			RTIS USE ONLY	
Application No. 10/023,032	Prepared by	S. Winelow		-
Examiner-GAU CHOWS HURY - 287/	Date	5-11-04	Week Date	4-19-04
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e. Domestic Priority	j. Claims Allowed o. PTO-892	t. Other

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UPER BROAD-BAND POLARIZING REFLECTIVE MATERIAL" Iled Cops. 30,96,0000

This is a continuation of application 09/066,403, 1 14/04 5 which is a continuation of application PCT/USA6/17964 filed now,

Technical Field

The present invention relates generally to circularly 10 polarizing reflective material made from single layer Cholesteric Liquid Crystal (CLC) film material having "super" broad-band reflection and transmission band characteristics approaching 2000nm, and also to various novel methods for 15 fabricating and using the same in diverse applications.

Background Art

In the modern world, there are numerous applications which require circularly polarizing material having broad-band reflection and transmission characteristics. Such applications range from polarizing filters used in optical systems, to highly reflective pigments used in the manufacture of CLC-based paints and inks.

A detailed review of the prior art literature reveals that 25 European Patent Application 94200026.6 entitled "Cholesteric Polarizer and Manufacture Thereof", published July 20, 1994 and assigned to Philips Electronics, N.V. of Eindhoven, Netherlands (the "Phillips reference"), is the most relevant prior art reference as it discloses several methods on how to 30 make a single layer CLC film material having broad-band reflection and transmission characteristics. In order to achieve its broad-band reflection and transmission characteristics, which are limited to about 400nm, the Phillips disclosure